IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Stinson et al.

Appl. No.:

Filed: March 2, 2004

Title : METHOD, MEDIA, AND SIGNALS FOR PROCESSING SEISMIC DATA TO

OBTAIN A VELOCITY FIELD

Grp./A.U. :
Examiner :

Docket No.: 14631

11

Honorable Assistant Commissioner of Patents Alexandria, VA 22313-1450

Sir:

PTO CUSTOMER NO. 000293

INFORMATION DISCLOSURE STATEMENT

In accordance with 37 C.F.R., §§ 1.97-1.99, applicant submits the following information which may be of interest to the examiner in charge of the above referenced application for patent. Only copies of the non-US references listed on the attached Form PTO-1449 are attached.

Respectfully submitted,

DOWELL & DOWELL, P. C

Ralph A. Dowell, Reg. No.: 26

DOWELL & DOWELL, P.C. Date: March 2, 2004

Suite 309, 1215 Jefferson Davis Highway

Arlington, Virginia 22202 Telephone: (703) 415-2555

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031*
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO		Complete if Known		
	Application Number	1		
INFORMATION DISCLOSI	JRE Filing Date			
STATEMENT BY APPLICA	ANT First Named Inventor	Stinson, Kerry James		
	Art Unit			
(use as many sheets as necess	ary) Examiner Name			
Sheet 1 of 2	Attorney Docket Number	82723-1		

		_	U.S. PATENT D	OCUMENTS	
Examiner	Cite No.1	Document Number Number – Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	US-6,493,634 B1	12-10-2002	Krebs et al.	Tigares Appear
	A2	US-6,289,285 B1	09-11-2001	Neff et al.	
	A3	US-5,978,314	11-02-1999	Pham	
	A4	US-5,663,928	09-02-1997	De Bazelaire et al.	
	A5	US-5,640,368	06-17-1997	Krebs	
	A6	US-5,570,321	10-29-1996	Bernitsas	
	A7	US-5,297,108	03-22-1994	Swan	
	8	US-			
	9	US-			
	10	US-			
	11	US-			
	12	US-			
	13	US-			
	14	US-			
	15	US-			
	16	US-			
	17	US-			
	18	US-			
	19	US-			
	20	US-			<u> </u>

	FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
		Country Code ³ - Number ⁴ - Kind Code ⁵ (<i>if known</i>)	Publication Date MM-DD-YYYY			T ⁶	
	21						
	22						
	23						
	24						
	25			-			
	26						
	27						
	28						

Examiner Signature	Date Considered	

Burden Hour Statement: TUnsaved Document 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231

Unsaved Document

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ **Applicant's** unique citation designation number **(optional)**. ² Kind Codes of U.S. Patent Documents at <u>www.uspto.gov</u> or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO	Complete if Known		
INFORMATION DIGGL COURT	Application Number		
INFORMATION DISCLOSURE	Filing Date		
STATEMENT BY APPLICANT	First Named Inventor	Stinson, Kerry James	
	Art Unit		
(use as many sheets as necessary)	Examiner Name		
Sheet 2 of 2	Attorney Docket Number	82723-1	

OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS						
Examiner Initials *	Cit No		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
	C	C1	S.M. Deregowski, "Common-offset migrations and velocity analysis" (1990) 8:6 First Break 225			
	c	2	P. Hubral, "Time-Migration - Some Ray Theoretical Aspects" (1977) 25 Geophysical Prospecting 738			
		23	G. Gardner et al., "Dip Moveout and Prestack Imaging" (1988) Offshore Technology Conference (OTC 5158) 75			
		24	A. Canning & G. Gardner, "A two-pass approximation to 3-D prestack migration" (1996) 61:2 Geophysics 409			
	c	55	V. Devaux et al., "3-D prestack depth migration by Kirchhoff operator splitting" (1996) 66th Annual International Meeting of Expl. Geophys. 455			
	-	26	P.J. Fowler, "A comparative overview of prestack time migration methods" (1997) 67th Annual International Meeting of Expl. Geophys. 1571			
	C	7	W. Kessinger, "Two-pass 3-D prestack depth imaging of the SEG salt model data" (1999) 69th Annual International Meeting of Expl. Geophys. 1095			
	0	28	M. Taner & F. Koehler, "Velocity Spectra - Digital Computer Derivation and Applications of Velocity Functions" (1969) 34:6 Geophysics 859 (reprinted in a Classics Issue, 1985)			
	c	9	J. Bednar, "A theoretical comparison of equivalent-offset migration and dip moveout-prestack imaging" (1999) 64:1 Geophysics 191			
	С	10	A. Canning & G. Gardner, "Two-Pass 3-D Prestack Depth Migration" (1993) 63rd Annual International Meeting of Expl. Geophys. 892			
	C11		J.R. Berryhill, "Kinematics of crossline prestack migration" (1991) 56:10 Geophysics 1674			
	C12		P.L. Stoffa et al., "Direct mapping of seismic data to the domain of intercept time and ray parameter - A plane-wave decomposition" (1981) 46:3 Geophysics 255			
	C13		J.W. Sattlegger et al., "Common Offset Plane Migration (COPMIG)" (1980) 28 Geophysical Prospecting 859			
	С	14	O. Yilmaz, "Seismic Data Processing" in S.M. Doherty, ed., Investigations in Geophysics, vol. 2 (Tulsa: Society of Exploration Geophysicists, 1987) pp 47-49, 155-183, 328-350, 403-410.			
Examiner Signature			Date Considered			

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231. **Unsaved Document**



¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.